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|---------------------------|----------|--------|------|
| POSITION                  | INITIALS | ID NO. | DATE |
|                           |          | -      |      |
| FEE DETERMINATION         |          |        |      |
| O.I.P.E. CLASSIFIER       |          |        |      |
| FORMALITY REVIEW          |          |        |      |
| RESPONSE FORMALITY REVIEW |          |        |      |

## INDEX OF CLAIMS

| v | Rejected                   |   | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | ŀ | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
|   | Restricted                 | 0 | Objected     |

|              |                |                         |            |  |            | _              | (Th       | irou     | gh       | กบก                     | nei      | al). | C             | anc                  | eled      |  |                |            |          | A          |                |              |              |           |          | A        | opea<br>ojec  | ij<br>tad  |                    |               |          |  |                               |                |               |          |
|--------------|----------------|-------------------------|------------|--|------------|----------------|-----------|----------|----------|-------------------------|----------|------|---------------|----------------------|-----------|--|----------------|------------|----------|------------|----------------|--------------|--------------|-----------|----------|----------|---------------|------------|--------------------|---------------|----------|--|-------------------------------|----------------|---------------|----------|
|              |                |                         |            | Λ  | ٦.         | ÷              |           | ••••     | •••••    | •••••                   | ••••     |      | R             | esti                 | ricte     |  | ኅ              |            |          | 0          | ••••           | •••••        | ••••         |           | •••••    | 0        | Jjec          | leu        |                    |               |          |  |                               |                |               |          |
|              | _              | $\sim$                  | 4          | Ą  | 9          | 1              |           | _        |          |                         | ٦        | Г    | Clo           |                      | ĺΛ        | -                                      | 3              | ᡠ          | 呼り       | _          |                |              | _            | $\neg$    | C        | aim      | 0             | <u> </u>   |                    |               | Date     |  |                               |                |               | ٦        |
| Clain        | 1              | Ö                       | B          | · N  | щ.         | Date           | <u> </u>  | _        | -        | _                       | $\dashv$ | ŀ    | Cla           |                      | 7         | र्धा                                   | <del>}</del> } | <u>, j</u> | آت       | _          | Т              | Т            | $\neg$       | -         | ۳        | $\top$   | Ť             | $\neg$     | $\neg$             | T             | T        | $\top$   | T                             | $\top$         | Т             | 7        |
| Final        | 8              | 2011-11-0               | 136        | 7  | 4          | - 1            |           |          | 1        |                         | 1        | ı    | _             | Original             |           | β,                                     | \$             | 7          | 3-7/-    |            |                | - 1          |              |           | ٦ ا      | Original | 15-5          |            | - 1                |               | 1        |  |                               |                |               |          |
| ٢            | ١              | ,<br>,                  | 1          | 1,   | 9          | - 1            |           |          |          | -                       | 1        |      | Final         | 2                    |           | 4                                      | Ś              | ركز        | m        |            |                | -            |              |           | Final    | ō        | ا دا          |            |                    |               |          |  |                               | $\perp$        | $\perp$       |          |
| <del>]</del> | í              | -                       | 0          | H  | 4          | -              | 十         | +        | +        | 十                       | ┪        | İ    | 7             | 51                   | 밎         | 흿                                      | ブ              |            | П        |            |                | 7            |              | 7         | 19       | 101      | -             |            |                    |               | $\Box$   | $\Box$   | $\Box$                        |                | $\perp$       | $\Box$   |
|              | 2              | 7                       | 4          | X  | $\dashv$   | $\dashv$       | 十         | ┪        | ┱        | $\top$                  | ٦        | ı    |               | 52                   | 7         | 1                                      | V              |            |          |            |                |              | $\neg$       |           | ľ        | 1102     | 3             |            |                    |               | $\Box$   |  |                               | $\perp$        | $\perp$       | ╛        |
| {            | 扌              | T                       | 1          | l Y  | 一          |                | $\dashv$  | 寸        | 十        | 1                       | 7        | Ī    |               | 53                   | 7         | П                                      | V              |            |          |            | П              |              |              |           | Ŀ        | 103      | _             |            |                    |               | $\bot$   |  | $\perp$                       | $\perp$        | ightharpoonup | _        |
| Ì            | إ              | +                       | Н          | Ш  | $\dashv$   | 十              | $\dashv$  | $\dashv$ | 十        | T                       | j        |      | 74            | aa l                 | 2         | •                                      | M              | 7          |          |            |                |              | $\Box$       |           |          | 104      |               | $\Box$     | _                  | _             |          | 4  | _}                            | $\dashv$       | 4             | 4        |
| 2            | 5              | 1                       |            |  |            |                |           |          | $\Box$   | $oldsymbol{\mathbb{T}}$ |          |      |               | 53<br>55<br>56       | Y         | 3                                      | ٧              | _          |          |            |                |              | _            | _         | $\vdash$ | 105      | -             | $\vdash$   | _                  | _             |          | 4  | -                             | $\dashv$       |               | 4        |
|              | ġ.             | $oldsymbol{\mathbb{Z}}$ | П          |  | $\Box$     |                | $\perp$   | _        |          | 1                       | ╛        | Ļ    |               |                      | <u>.V</u> | 4                                      | -              |            | L        |            | _              | _            | -            | 4         | -        | 106      | $\vdash$      | $\dashv$   | -+                 | $\dashv$      |          | +  | $\dashv$                      | +              | $\dashv$      | _        |
|              | 1              | _ }                     | Ш          | Ш  | $\dashv$   | _              | $\perp$   | _        | _        | 4                       | 4        | ļ    | 1             | 57<br>58             |           | 1                                      |                |            |          |            | -              | -            | -            | -         | $\vdash$ | 107      | Н             | ⊢┪         | $\dashv$           | $\dashv$      | -        | $\dashv$   | -+                            | +              | +             | $\dashv$ |
| 4            | 8              | _                       | М,         | Щ  | _          | $\overline{+}$ | _         | 4        | -+       | -                       | 4        | 4    | $\leftarrow$  | 30                   | 4         | 4                                      | Y              |            | 1        | _          | $\vdash$       |              | $\dashv$     | -         | -        | 109      | -             |            | -                  | ┪             | -        | -  | ┪                             | +              | +             | $\dashv$ |
| 4            | þ              | -1                      | 4          | V  | _          | _              | $\dashv$  | -+       | +        | +                       | 4        | , }  | $\mathcal{H}$ | 59<br>60<br>61<br>62 | -         | -                                      | Y              | /          | ┝        | $\vdash$   | Н              | $\dashv$     | $\dashv$     | $\dashv$  | $\vdash$ | 110      | _             |            | -+                 | -             | -        | 十  | $\dashv$                      | $\dashv$       | $\dashv$      | ᅱ        |
| !            |                | $\dashv$                | <u> </u>   | H  |            | -              | -         | $\dashv$ | $\dashv$ | +                       | 4        | 너    |               | 긺                    | -         | -                                      | Y              | 7          | 1        | _          | Н              |              | $\dashv$     | ᅱ         | $\vdash$ | 111      |               |            |                    | 寸             | -        | $\dashv$   | _                             | 寸              | 十             | ┪        |
|              | ¥ I            | -                       | 4          |  |            | $\dashv$       | -+        | +        | +        | +                       | $\dashv$ | ŀ    | -             | 62<br>62             |           | -                                      | -              | Ť          | -        | $\vdash$   |                |              | -†           | $\dashv$  |          | 112      | -             | П          | _                  | $\neg$        | $\dashv$ | $\dashv$   | ヿ                             | 1              | ヿ             | $\neg$   |
| - 1<br>3 -   | 2              | $\dashv$                | A          | IY   | $\dashv$   | $\dashv$       | $\dashv$  | +        | -        | +                       | ╡        | 1    | -             | 63                   | -         | _                                      |                | H          | †        |            | Н              | $\neg$       | _†           |           |          | 113      | 1             | П          |                    | T             | $\neg$   | $\exists$  | T                             | T              | ┑             |          |
| 11           | 3<br>4         | +                       | 1          | Н  |            | $\dashv$       | -         | 十        | 十        | 十                       | ┪        |      |               | 64                   |           |  |                | $\forall$  | 1        |            |                |              |              |           |          | 114      | 4             |            |                    |               |          | $\Box$   | $\Box$                        | $\Box$         | $\Box$        |          |
| 1 1          | 5              | -                       | H          | H  |            | $\dashv$       | _         | 7        | 7        | _                       | ┪        |      | _             | 65                   |           |  |                | 17         | Π        |            |                |              |              |           |          | 115      | 1             |            |                    |               | $\Box$   |  |                               | _              | $\dashv$      | _        |
| 1            | Б              | $\top$                  | H          | Н  | М          | $\neg$         | 寸         | 寸        | 一        | 寸                       | ٦        |      |               | 66                   |           |  |                |            |          |            |                |              |              |           |          | 116      |               |            |                    | $\dashv$      | _        | $\perp$  |                               | _              | <u>.</u>      | _        |
|              | 7              | 7                       | П          | 1  |            |                |           | $\Box$   |          |                         |          |      |               | 67                   |           |  |                | L          |          | L          |                | $\sqcup$     |              |           |          | 117      |               | _          |                    |               | $\dashv$ | $\dashv$   | _                             |                | $\dashv$      |          |
| 11           | В              | T.                      |            |  |            |                |           |          | $\Box$   |                         |          |      |               | 68                   | Ц         |  | L.             | L          |          | L          | <u>L</u> .     |              |              | _         | <u> </u> | 118      | +             |            |                    |               |          | $\dashv$   |                               | $\dashv$       | -             |          |
| 11           | þ              | Ι                       |            |  |            |                |           |          |          |                         |          |      |               | 69                   | $\perp$   |  |                | L          | ↓_       | _          | _              | Ш            | _            | _         | L        | 119      | -             | _          |                    |               | $\dashv$ | $\dashv$   | $\dashv$                      | -              | $\dashv$      | 긕        |
| 1 2          | þ              | $\int$                  |            |  |            |                |           |          |          |                         |          |      |               | 70                   |           |  |                | L          | 丄        | ┖          |                |              | _            |           | $\perp$  | 120      | -             | <u> </u> _ | Ш                  |               | $\vdash$ |  |                               | -              | $\dashv$      |          |
| 1 2          | žī             | $\Box$                  |            |  |            |                |           | $\Box$   |          | $\perp$                 | $\sqcup$ |      |               | 71                   |           |  | _              | L          | 1        | <u> </u>   | _              | -            |              |           |          | 12       |               |            | $\left[ - \right]$ | -             |          | $\dashv$   |                               | $\dashv$       | -             | ᅴ        |
| 1 2          | 2234           |                         | Ш          | Ш  |            | Щ              | _         | $\dashv$ | _        | 4                       | _        |      |               | 72                   |           |  | L              | -          | <b>↓</b> | <b>├</b> - | ┡              | $\vdash$     |              |           | -        | 12       |               | -          | -                  |               | ├─┤      | $\dashv$   | -                             | $\dashv$       |               | $\dashv$ |
|              | 23             | Ц                       | Ш          | Ш  | _          |                | _         | _        | _        | 4                       | _        |      | _             | 73                   | <b>  </b> |  |                | ┡          | ╀        | ├-         |                | Н            | ᅴ            | $\dashv$  | $\vdash$ | 12       |               | ├          | Н                  | -             | $\vdash$ | $\vdash$   | $\dashv$                      |                | $\dashv$      | $\dashv$ |
|              |                |                         | Н          | #-   |            | $\vdash$       | _         | _        | _        |                         | 긕        |      | <u> </u>      | 74<br>75             | $\vdash$  |  | ├              | ⊢          | ┼-       | ⊢          | -              | Н            | $\vdash$     | $\dashv$  | -        | 12       | -             | ┼~-        | Н                  |               | Н        | H  | $\Box$                        |                | $\dashv$      | 一        |
|              | 25             | Н                       | $\sqcup$   | 11-  | L          | $\vdash$       | -+        | -        | 4        | $\dashv$                | -{       |      | _             | 76                   | Н         |  | ⊢              | -          | ╁        | +-         | $\vdash$       | -            | Н            | $\vdash$  | ┢        | 12       |               | ┢          | $\vdash$           | $\overline{}$ | $\vdash$ | П  |                               | $\neg$         | 寸             | $\neg$   |
|              | 6<br>7         | Н                       | ╂╌╂        | Н  | -          | Н              | -+        | -        | $\dashv$ | $\dashv$                | ╌┤       |      | -             | 77                   | $\vdash$  |  | ├╌             | ╫          | ╁        | 1          | ├              |              | Н            | $\forall$ | <br> -   | 12       |               | 一          | Н                  |               | П        | П  |                               | П              |               | П        |
|              | 28             |                         | 1          | ╁┼   | ⊢          | Н              | $\vdash$  | -+       | $\dashv$ | -+                      | ┪        |      | $\vdash$      | 78                   | Н         | -                                      | $\vdash$       | Η.         | +        | $\vdash$   | $\vdash$       |              | П            | П         | F        | 12       |               | 1          | П                  |               | П        | П  | П                             | $\Box$         | П             |          |
|              | 29             |                         | H          | $\dagger \dagger$                                | -          |                | $\dashv$  | $\dashv$ | -        | _                       | -1       |      | H             | 79                   | П         | _                                      | <u> </u>       | П          | T        | 1          |                |              |              |           |          | 12       |               |            |                    |               |          |  |                               |                | $\Box$        |          |
|              | 30             | 1                       | Н          | 1  | $t^-$      |                | $\exists$ | -†       | $\dashv$ | _                       |          |      |               | 80                   |           |  |                | П          |          |            |                |              |              |           |          | 13       |               | L.         |                    |               |          |  |                               | Ш              | Ш             | Ш        |
|              | 31             | H                       | $\dagger$  | 1  | Г          |                |           |          | $\neg$   |                         |          |      | Ĭ             | 81                   |           |  |                |            | $\Box$   |            |                | L            |              | Ц         | L        | 13       |               | <u> </u>   | Ľ                  |               | Ш        | <u> </u>   | Ш                             | Ш              | Ш             | Щ        |
|              | 32             | П                       |            |  |            |                |           |          |          |                         |          |      |               | 82                   |           |  | L_             | L          |          | 1          | _              | <u> </u>     | _            | Ш         |          | 13       |               | ┞-         | <u> </u>           | _             | ⊢        | -  |                               | Н              |               | $\vdash$ |
|              | 33             | П                       |            |  | L          |                |           |          |          | _                       |          | ہ    | L             | 83                   |           | _                                      | <u> </u>       | 4          | 4_       | ↓_         | _              | <u> </u>     |              | $\vdash$  | -        | 13<br>13 |               | ┼          | <u> </u>           |               | ⊢⊦       | -  | Н                             | $\vdash$       | $\vdash$      | Н        |
| $\square$    | 34             | Ц                       |            | Ш  | <u>_</u>   | $\perp$        |           |          | _        | _                       |          | 3    | i             | 84                   | -         | <u> </u>                               | ╀-             | ╄          | 2        | +          | <del> </del> − | ├-           | -            | H         | -        | 13       |               | +          | ├-                 | $\vdash$      | ├─       | $\vdash$   | ⊢                             | Н              | ┝╼            | $\vdash$ |
|              | 35             | $\sqcup$                | 1          | 11   | <b>\</b> _ | <u> </u>       | Ш         | Н        | _        | _                       |          |      | 13            | 85<br>86             | ⊢         | -                                      | $\vdash$       | +          | =        | +-         | $\vdash$       | +-           | -            | H         | $\vdash$ | 13       |               | ╁          | $\vdash$           | -             | ┼─       | -  | $\vdash$                      | Н              | Н             | Н        |
| Щ            | 36             | $\coprod$               | 1          | 1  | +          | -              | Н         | Н        | H        |                         | _        |      | 3             | 87                   |           | -                                      | +              | ╀          | =        | +          | +              | ├-           | <del> </del> | Н         | $\vdash$ | 13       |               | 1          | $\vdash$           | $\vdash$      | $\vdash$ | -  | ┢                             | H              | Н             | Н        |
| -            | 37<br>38       | ₽                       | +          | ₩  | -          |                | Н         | Н        | -        | $\dashv$                |          |      | 6             | 88                   | ├         | -                                      | ╁              | +          | 1=       | +          | $\vdash$       | $\vdash$     | $\vdash$     | H         | -        | 13       | $\rightarrow$ | †-         |                    | H             | H        | <del>                                     </del> | Г                             | H              | П             | П        |
|              | 3B<br>39       | H                       | +          | ╁  | 1          | -              | H         | Н        |          | $\dashv$                |          | 1    | Ť             | 89                   | $\vdash$  | $\vdash$                               | +              | ✝          | +        | 十          | T              | 1-           | T            | Н         |          | . 13     | _             | 1          | 1                  | Γ             |          | Г  |                               |                |               |          |
| H            | 39<br>40<br>41 | ╁                       | +-         | <del>                                     </del> | ╁          | ╁              | -         | $\vdash$ | -        | H                       | _        | 1    | 0             | 90                   | t         | $\vdash$                               | T              | T          | ╘        | T          | T              | Τ            | Τ            | П         | F        | 14       |               | T          | 1                  | Π             | Г        |  | Γ                             |                |               |          |
| H            | 17<br>11       | H                       | ┿          | # +  | ╁          | ┢╌             | H         | $\vdash$ | Н        |                         |          | 1    | 9             | 91                   | $\vdash$  | ┢                                      | 十              | $\dagger$  | 13       |            | +              | $\top$       | $\vdash$     | П         | T        | 14       | 1             | T          | ✝                  |               | Г        |  | Г                             | Г              | П             |          |
| 1            | 40             | ₩                       | +          | ╢  | 1          | +              | Н         | -        | Н        | $\vdash$                |          | 1    | Ť             |                      |           | Г                                      | +              | T          | 12       | T          | †              | 1            | Τ            | П         | T        | 14       | 2             | Τ          | Ι                  |               |          | L  |                               |                |               |          |
| -            | 43             | H                       | 十          | 1  |            | +              | $\vdash$  | T        | -        | $\forall$               |          | 1    | 10            | 93                   | -         | T                                      | T              |            | =        | I          | I              | 1            | L            |           |          | 14       | 3             | L          |                    |               |          | 匚  | 匚                             |                |               |          |
| 1/1          | ħ              | Ų                       | #          | T  | i          | $T^-$          | Т         | Г        | П        | П                       | _        | 1    | 11            | 94                   | 1         | Γ                                      | Τ              | Γ          | 12       |            |                | $oxed{\Box}$ |              |           |          | 14       |               |            |                    | L             | L        | _  | $\perp$                       | <u>_</u>       | $oxed{oxed}$  | L        |
| H            | 45             | ۲                       | ⇈          | #7   | <b>\</b>   | $\top$         |           |          |          |                         |          | 1    | 12            | 95                   |           | L                                      | I              | L          | 3        |            |                |              | Г            |           | [.       | 14       | _             |            | ļ                  | Ļ             | <u> </u> | ــــــــــــــــــــــــــــــــــــــ           | $oldsymbol{oldsymbol{\perp}}$ | <u> </u>       | ļ.            | <u> </u> |
|              | 46             |                         |            | 口  |            |                |           |          |          |                         |          | ]    | 13            | 96                   |           | Ĺ                                      | $\perp$        | Ļ          | Ξ        | Ļ          | 1              | 1            | L            | Ш         |          | 14       |               | 4          | $\perp$            | 1             | ╄-       | ₩  | $\vdash$                      | <del> </del> - | $\vdash$      | -        |
| 4            | 1              | جلا                     | 1          | 0  | 1          |                |           |          | Ĺ        |                         |          | 1    | 14            | 97                   |           | 1                                      | 1              | 1          | 12       |            | _              | $\vdash$     | ـ            | $\sqcup$  | -        | 14       | -             | +          | $\perp$            | 1             | ╀-       | +  |                               |                | -             | -        |
|              | 4              |                         | <u>}</u> - |  | $\Box$     |                |           | 匚        |          | Ц                       |          |      | 121/2         | 98                   |           | ـ                                      | 1              | $\bot$     | 13       | 1          | $\perp$        | +            | -            | $\vdash$  | -        | 14       | _             | +          | ╀                  | +             | +        | ┼  | ╀                             | ₩              | ╁             | ┢        |
| 4            | 4              |                         | 10         | 2  | ;├_        | +              | <u> </u>  | L        | -        | $\vdash$                | _        | 1    | 14            | 99                   | <u>'</u>  | ╀                                      | +              | +          | 1        |            | +              | ╁            | ╁            | H         | -        | 14       |               | ╁          | +-                 | ╁             | +        | +  | +-                            | +-             | +             | $t^{-}$  |
|              | 50             |                         | T          | II.  | 1_         |                | l         | _        | Ц_       | لـــا                   | _        | ı    | <b>L</b>      | li O                 | ٩         | ــــــــــــــــــــــــــــــــــــــ |                |            | _13      | Щ.         |                | J            | _            | ۳         | L        |          | ۳             | _          | —                  | -             |          |  |                               |                |               |          |

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